

WHITEHALL
ELECTRIC UTILITY

PUBLIC SERVICE

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(6490)

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January 3, 2003

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Electric Division

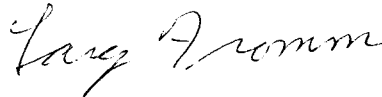
Mr. Scot Cullen, Chief Electric Engineer
Public Service Commission
610 N. Whitney Way
P.O. Box 7854
Madison, WI 53707-7854

RE: In the Matter of Filing Reporting Requirements for Appropriate Inspection and
Maintenance, PSC Rule 113.0607(6)

Dear Mr. Cullen:

Enclosed for filing are 3 copies of Whitehall Electric Utility's report to the commission,
submitted every two years, showing compliance with its Preventative Maintenance Plan.

Very truly yours,



Gary Fromm
Superintendent

Enclosures

**TWO YEAR REPORT DOCUMENTING
COMPLIANCE WITH THE
PREVENTATIVE MAINTENANCE PLAN**

Whitehall Electric Utility

**FILING DEADLINE
FEBRUARY 1, 2003**

January 3, 2003

Gary Fromm

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This report format was prepared by the MEUW work group for PSC Rule 113.0607 for use by the 82 municipal electric utilities in Wisconsin and endorsed by PSC staff as meeting the requirements of Rule PSC 113.0607.

IX Facility condition – rating criteria:

Eighty percent of the entire system has been rebuilt during the past 20 years. An additional ten percent of the system is 6A copperweld and is scheduled for being rebuilt within the next 3 years. Other than minor storm damage two years ago, only one mechanical failure caused an outage – a lightning arrestor failure. The system is in excellent operating condition.

IV Corrective Action Schedule

The rating criteria as listed above determine the corrective action schedule.

V Record Keeping

All inspection forms and records will be retained for a minimum of 10 years. The inspection form contains all of the required critical information i.e. inspection dates, condition rating, schedule for repair and date of repair completion.

VI Reporting Requirements

A report and summary of this plan's progress will be submitted every two years with the first report due to the Commission by February 1, 2003. The report will consist of a cover letter documenting the percent of inspections achieved compared to the schedule and the percent of maintenance achieved within the scheduled time allowance.

VII Inspected Circuits and Facilities

Circuit # and description	Substation
East circuit	Whitehall #1 Substation
Industrial Circuit	Whitehall #1 Substation
Downtown Circuit	Whitehall #1 Substation
West Circuit	Whitehall #1 Substation

Base load and peaking generation, less than 50 megawatts per unit in size, is typically subject to pre-operational checks, in addition to checks and maintenance during and after periods of operation. Emergency generation is test run and maintained every month to confirm its operational readiness.

VIII Scheduling Goals Established and Success of Meeting the Criteria:.

Whitehall Electric Utility inspects its substation weekly every Monday morning and inspects the entire overhead and underground distribution system annually.

All of the inspection goals were met. One low priority warm connection was found during the annual infrared scan and was repaired in 2 days. Three guy guards were replaced during the inspection process.

I Reporting Requirements: PSC 113.0607(6) states;

Each utility shall provide a periodic report to the commission showing compliance with its Preventative Maintenance Plan. The report shall include a list of inspected circuits and facilities, the condition of facilities according to established rating criteria, schedules established and success at meeting the established schedules.

II Inspection Schedule and Methods:

SCHEDULE:	MONTHLY	ANNUAL	EVERY 5 YEARS
Transmission ($\geq 69\text{Kv}$)		X	X
Substations	X	X	
Distribution (OH & UG)			X

METHODS: Five criteria groups will be used to complete the inspection of all facilities.

1. IR – infrared thermography used to find poor electrical connections and/or oil flow problems in equipment.
2. RFI - Radio Frequency Interference, a byproduct of loose hardware and connections, is checked using an AM radio receiver.
3. SI – structural integrity of all supporting hardware including poles, crossarms, insulators, structures, bases, foundations, buildings, etc.
4. Clearance – refers to proper spacing of conductors from other objects, trees and conductors.
5. EC – equipment condition on non-structural components such as circuit breakers, transformers, regulators, reclosers, relays, batteries, capacitors, etc.

Distribution facilities will be inspected by substation circuits on a 5 year cycle such that the entire system will be inspected every 5 years. Inspector instructions for inspecting all facilities and forms are included in the plan.

III Condition Rating Criteria

This criterion, as listed below, establishes the condition of a facility and also determines the repair schedule to correct deficiencies .

- 0) Good condition
- 1) Good condition but aging
- 2) Non-critical maintenance required – normally repair within 12 months
- 3) Priority maintenance required – normally repair within 90 days
- 4) Urgent maintenance required – report immediately to the utility and repair normally within 1 week